Fall 2008

CEG 355: Introduction to the Design of Information Technology Systems

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CEG355 Introduction to the Design of Information Technology Systems

Fall Quarter 2008

Wright State University

Course Description

Introduction to the design of information systems comprising modern technologies such as SQL database programming, networks, and distributed computing with CORBA, electronic and hypertext (HTML) documents, and multimedia.

This course is concerned with the techniques of designing and implementing distributed business software. Emphasis is on developing graphical user interfaces (GUIs) using Java Swing classes, storing and accessing data in a relational database using SQL, and implementing a distributed system using CORBA technology. Especially in light of Java and CORBA, there is a focus on object-oriented programming. The overall objective is to make the student aware of the technology available to implement a distributed business application built over a database system and to develop in the student the ability to use such technologies. Hands-on experience is emphasized through the use of homework and a class project.

Professor

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Class Hours: T R 12:20 P.M. – 1:35 P.M., Russ Engineering, Room 406.

Text

Horstmann and Cornell, *Core Java 2, Volume II, 8th Ed.*, Prentice Hall, 2008.

Prerequisites

CS241

Grading

Grading will be as follows:

Homework, programming exercises & Project s	50
Midterm Exam	25
Final Exam	25

Course grades will be based on the total score as follows: A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: below 60. Grades may be further curved if appropriate.

You may work with others on homework assignments, but you must turn in your own individual work. Homework that has obviously been copied will result in a grade of zero for both parties and will be reported to the Office of Judicial Affairs, as will any other form of cheating. Ten percent will be deducted for unexcused late homework up to 1 week late.

(continued)

Tentative Schedule Fall 2008

Week	Topic	Text (chapter:pages)	Slides	Code
1	T (9/9) Introduction	Review	Intro355, JavaIntro	BasicCode
	R (9/11) Java	Review	MoreJava	BasicCode
2	T (9/16) Java Swing	Review	Swing	SwingCode, StudentList
	R (9/18) Java Swing, JList	6:352-358	JavaReview Architecture	Calculator1, TicTacToe Comparers
3	T (9/23) MVC, Java data models	6:358-369	DataModel	Rectangle, StudentList
	R (9/25) Data models, JTable	6:358-404	JTable	StudentList, StudentTable
4	T (9/30) Databases, SQL	4:222-227, Handouts	RelationalDB	
	R (10/2) JDBC	4:222-227, Handouts	JDBC	DemoMySQL
5	T (10/7) Review, JDBC	4:218-221, 227-273	JDBC, Access	
	R (10/9) Midterm	All through JTables		
6	T (10/14) CORBA	10:841-844, notes	CORBA1	
	R (10/16) CORBA	10:841-844, notes	CORBA2	Corba1, Corba2, Corba3
7	T (10/21) RMI	10:841-870	RMI	RMI1
	R (10/23) XML	2:87-104, 112-114	XML	XMLcode1
8	T (10/28) XML	2: 129-137, 146-167	XML2	XMLcode2
	R (10/30) SOA, Web Services	10:871-882	SOA	
9	T (11/4) Advanced Topics	TBD	TBD	
	R (11/6) Advanced Topics	TBD	TBD	
10	T (11/11) HOLIDAY			
	R (11/13) Catch up, Review	All		

- T (11/18) 1:00 PM - 3:00 PM Final Exam

NOTE: There will be *no* early final exam – plan your travel accordingly. In case of a legitimate conflict, a makeup final can be arranged.